

Technology Bucket	Category	Description
MedTech / BioTech / HealthTech	Software	<p>There are three tissue nourishment theories known as 'Dhatuposhan Nyaya' described by Acharya's: 1. Theory of Transformation: Nutrients getting converted into tissues. 2. Theory of Transportation: Nourishment of the tissues can be compared to irrigation of fields by water from a canal. 3. Theory of Selection: The nutrition required by a tissue is selected from the essence part of food being circulated. To apply these principles scientifically, Virtual Reality technology may be helpful.</p>

MedTech / BioTech / HealthTech	Software	Cutting-edge technology in these sectors continues to be in demand. Recent shifts in healthcare trends, growing populations also present an array of opportunities for innovation.
MedTech / BioTech / HealthTech	Hardware	Cutting-edge technology in these sectors continues to be in demand. Recent shifts in healthcare trends, growing populations also present an array of opportunities for innovation.

MedTech / BioTech / HealthTech	Hardware	<p>Communication is important but some people with disabilities face challenges due to motor coordination, intellectual deficit, and sensory perceptual deficit. They use AAC as a nonverbal mode of communication, but it is expensive in India. Developing a low-cost AAC device and hardware in India can help a lot of people.</p>
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MedTech / BioTech / HealthTech	Software	<p>Speech therapy is an effective treatment for misarticulation. We need Hindi materials or treatments to help individuals with articulation problems in an Indian context. A software with therapy activities and techniques in three to four domains, including position, phoneme, and picture levels, would be helpful. It should also show correct and incorrect word production to help individuals determine their mistakes.</p>
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MedTech / BioTech / HealthTech	Hardware	<p>We designed a pocket-friendly Myoelectric prosthetic arm using 3D printing technology for the structure, servo motors and Arduino for the mechanical purpose, and Myoware muscle sensor for reading electrical signals generated by muscles. This makes the prosthetic arm much cheaper and accessible for middle-class and lower middle-class patients/amputees in India.</p>
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MedTech / BioTech / HealthTech	Software	<p>To know a person Hearing Loss, generally we use a Pure Tone Audiometer. To use this it requires a bulk of the instrument to be carried. This testing requires a considerable amount of time for testing. It was observed that during a large level hearing testing it is consuming much time. So a hand held Mobile phone operated APP BASED AUDIOMETER will be of immense useful in finding and detecting the hearing loss in children in a schools</p>
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MedTech / BioTech / HealthTech	Software	<p>Tinnitus noise can cause anxiety and stress, affecting daily life and livelihood. Electronic devices can suppress the noise by finding and suppressing its frequency. It would be helpful if the device could observe and analyze the noise to find the frequency and suppress it, benefiting those suffering from tinnitus.</p>
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MedTech / BioTech / HealthTech	Software	<p>A digital system will be developed to automate appointment scheduling in hospitals. The system will use advanced technologies such as RFID and face detection to detect doctor availability and allocate appointment slots using AI. The system will reduce waiting time for patients and improve overall efficiency and convenience.</p>
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MedTech / BioTech / HealthTech	Software	<p>Ayurvedic medicine has a vast database of herbs and formulations that are tailored to suit each individual's constitution, clinical condition, age, and region. However, searching through over 150 texts for the right treatment can be tedious, which is why a custom software is needed. The software would identify suitable formulations and single drugs for a set of symptoms and provide information on unsuitable ingredients and medicine mediums. It would also convey information on the same disease mentioned in different names and single words that are used to denote different things.</p>
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MedTech / BioTech / HealthTech	Software	<p>Ayurveda is a natural health care system that emphasizes personalized treatment based on an individual's 'Prakruti' type. This type is determined by the theory of tridosha and assists in understanding one's predisposition to different diseases. Knowing one's Prakruti type helps in deciding the best food and lifestyle choices to prevent diseases. Self-assessment tools, such as a chatbot with a pre-recorded questionnaire, can make the process of determining one's Prakruti type more convenient.</p>
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MedTech / BioTech / HealthTech	Software	<p>The key objective of the Startup AYUSH portal is to be a one-stop platform for all stakeholders (Startups, Investors, Incubators, Accelerators, Government Agencies, and Public Users) in the AYUSH system to interact and collaborate in a highly dynamic environment. The portal is directed to provide a collaborative platform for all the stakeholders of the AYUSH startups to have an interactive engagement to enhance and bolster the network. It will bring together the entire AYUSH Startup community at the global level through virtual connections, mentorship, and showcase opportunities. It will have a plethora of resources and information guides to propel everyone in their entrepreneurial journey.</p>
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MedTech / BioTech / HealthTech	Software	<p>Skin diseases are the fourth leading cause of nonfatal disease burden globally. They can be related to severe systemic illnesses, and can also affect patients' well-being, mental health, and social participation. However, providing dermatological care to under-served regions is difficult due to lack of diagnostic tools and trained physicians.</p> <p>Developing an AI-based tool for preliminary diagnosis of dermatological conditions can be a solution.</p>
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MedTech / BioTech / HealthTech	Software	<p>Identifying medicinal plants in the market is a major issue in Ayurvedic Pharmaceuticals. The extensive consumption and seasonal/geographical availability often leads to confusion and misidentification. Adulteration and substitution are also common practices. A software that uses Image Processing With Machine Learning Algorithms to identify medicinal plants/raw materials can be helpful at every level of the supply chain.</p>
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MedTech / BioTech / HealthTech	Software	<p>The Ayurveda uses herbs with different tastes (rasa): Madhura (sweet), Amla (sour), Katu (pungent), Tikta (bitter), and Kashaya (astringent). Herb selection depends on taste, which affects the body's physiology. The same applies to dietary items for health management. An instrument (Tongucometer) is needed to quantify taste for quality assessment of crude herbs.</p>
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MedTech / BioTech / HealthTech	Hardware	<p>There is a problem of not having a hygienic toilet while traveling. An automatic self-cleaning toilet system could be developed with features such as ultraviolet disinfection, hot air drying, and saving water. It could also include a built-in air freshener, motion sensor, and bidet for improved hygiene.</p>
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MedTech / BioTech / HealthTech	Software	<p>Cognitive retraining aims to enhance cognitive abilities in areas such as attention, memory, problem-solving, and decision-making. Children with developmental disabilities often experience cognitive disabilities.</p> <p>EEG neuro-feedback combined with home-based training can be a useful method for clinicians to monitor progress and changes in the child's cognitive profile through a single software.</p>
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MedTech / BioTech / HealthTech	Hardware	<p>Lower limb amputees find it difficult to ride motorbikes due to stationary ankles in prosthetic feet. Modifications such as a modified brake lever or a left-hand thumb operated gear selection can help resolve this issue.</p>
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